



SOLUTIONS FOR

Recycling





We engineer dreams

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THE WIDEST RANGE OF SOLUTIONS FOR RECYCLING PROCESSING AND MACHINERY

Bonfiglioli conceives, designs and produces custom solutions for collection, downsizing and sorting of waste materials. Recycling is a key component of waste management to reduce pollution and landfill waste.

Our wide product portfolio includes planetary gearboxes, motors and frequency inverters designed according to our customers' specific requirements.

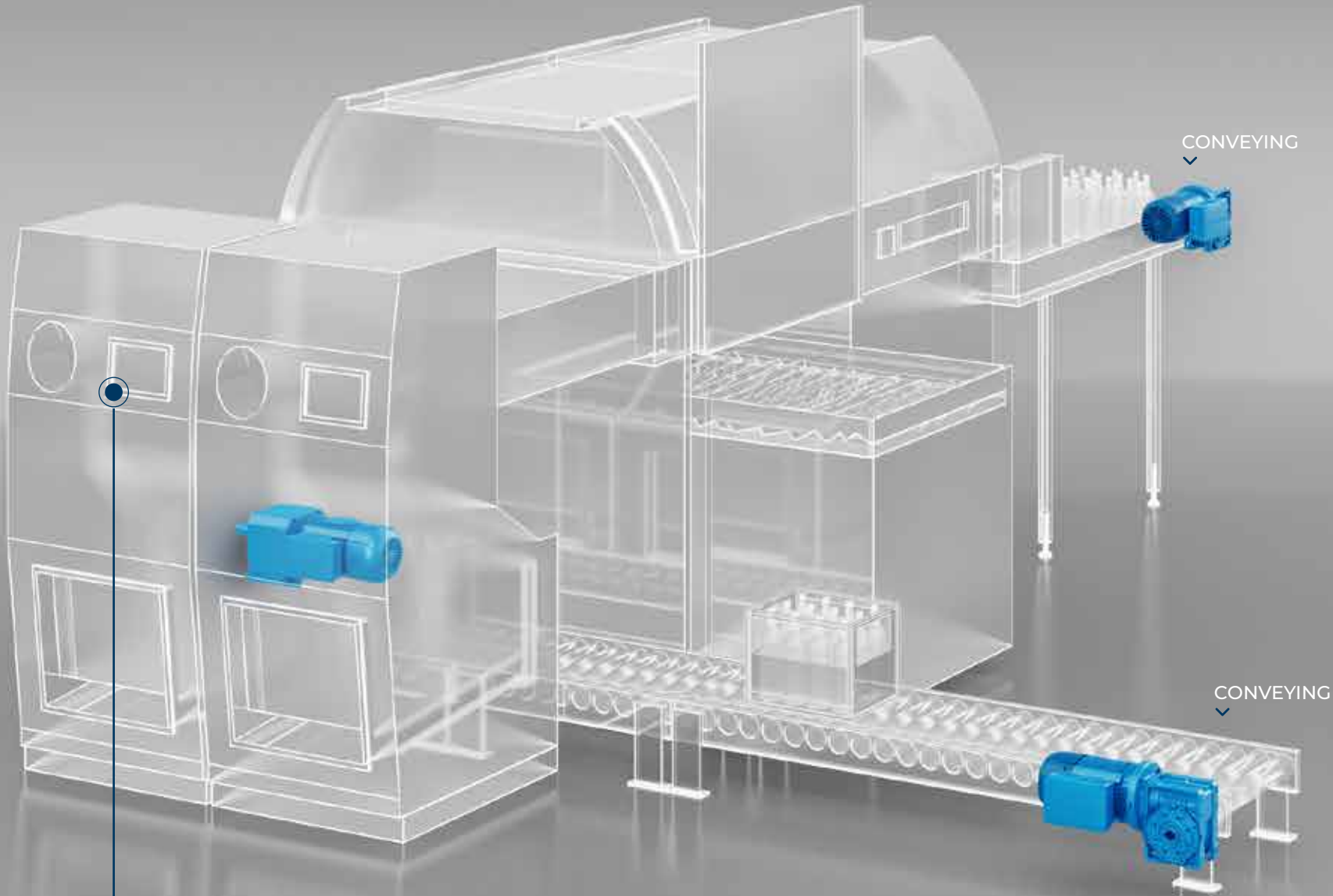
These solutions are developed with the highest level customization, which requires, right from the initial design phases, in-depth interaction between the customer and Bonfiglioli's team, to ensure that all the required specifications and variants are known, and obtain a product that perfectly meets expectations.

This is why our pre-sales and after-sales teams - spread strategically over all continents - play such a crucial role, and why ensuring complete support is at the heart of our global success.



WWW.BONFIGLIOLI.COM





1 REVERSE VENDING MACHINE
(SHREDDING OR COMPACTOR)



2 STAND ALONE SHREDDERS

1

**REVERSE VENDING
MACHINE
(SHREDDING OR COMPACTOR)**



High reliability and long operating life are the basic features that our products offer for standalone recycling machines. And full integration with Bonfiglioli drives offers a complete package solution.

2

**STAND ALONE
SHREDDER**



High reliability and long operating life are the basic features that our products offer for standalone recycling machines. And full integration with Bonfiglioli drives offers a complete package solution.



EVOX CP series

Helical in-line gearbox and geared motor

- Compact gearmotor design
- High shock load resistance
- One-stop-shop for complete drive solutions
- Wash down capability



W series

Universal worm geared motor

- Quiet operation
- Compact gearmotor design
- Universal mounting



AxiaAgile Series

Advanced inverter

- Smooth start
- Variable "cut position" for smaller particles



300M series

Planetary gearbox and geared motor

- High shock load resistance
- Compact design
- One-stop-shop for complete drive solutions
- Wash down capability



AxiaAgile Series

Advanced inverter

- Smooth start
- Variable "cut position" for smaller particles

BENEFITS

FEATURES

- Surface protection
- Universal motor voltage (BXN/MXN)
- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Total quality inspection certificate

- Lightweight gearbox
- Universal motor voltage (BXN/MXN)
- High and premium efficiency motors (IE2, IE3)
- Total quality inspection certificate

- CAN open support (variant depending)
- Industrial Ethernet support (variant depending)
- Sensorless control of synchronous, synchronous-reluctance and asynchronous motors
- DC link connection
- Integrated brake chopper
- Power failure control
- Programmable PI Controller
- Integrated PLC (variant-depending)
- Master/slave function with electronic gear
- Integrated safe torque off STO (SIL 3 / PL e / Cat.3) function
- Intelligent current limits
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via optional keypad and Service interface for PC connection

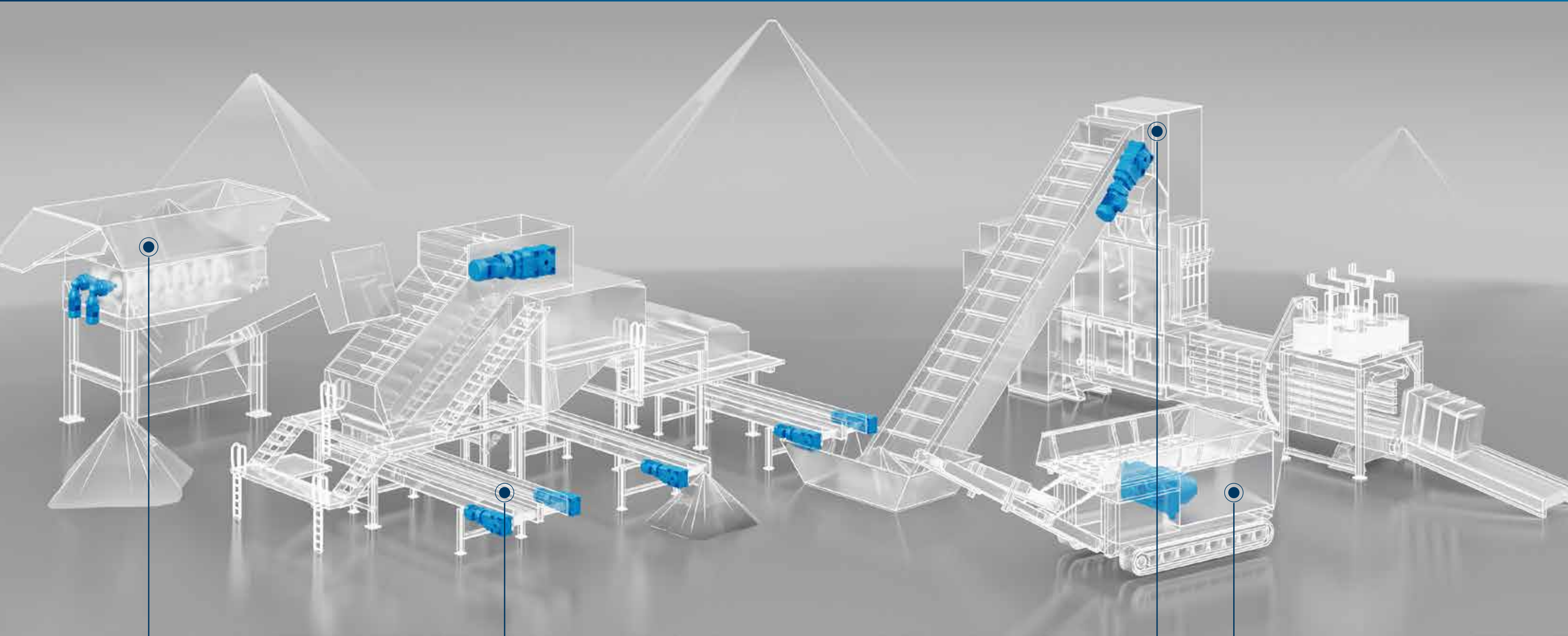
BENEFITS

FEATURES

- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Thermal protection (bi-metallic, PTC or KTY)
- Anti-condensation heaters
- Total quality inspection certificate

- CAN open support (variant depending)
- Industrial Ethernet support (variant depending)
- Sensorless control of synchronous, synchronous-reluctance and asynchronous motors
- DC link connection
- Integrated brake chopper
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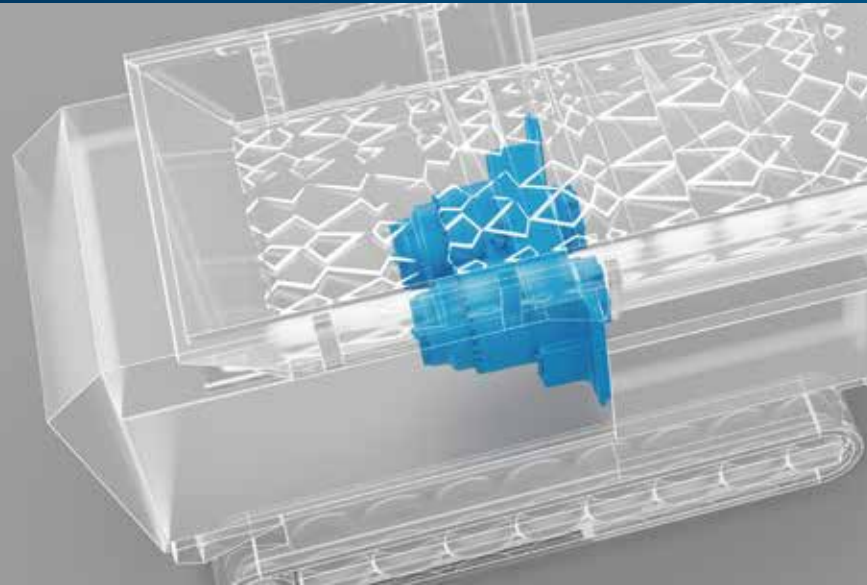


2 SECONDARY SHREDDING

3 CONVEYING

1 PRIMARY SHREDDING

4 COMPACTORS



1

PRIMARY
SHREDDING

Totally integrated machine design and performance are the key features that our planetary products offer for primary shredding equipment. Bonfiglioli can boast a long experience with all OEM WW leaders. Its dedicated factory provides premium services worldwide.



R3 series
Double planetary gearbox



Active Cube series
Premium inverter

BENEFITS

- Easy installation
- Quiet operation
- High torque capabilities

- Synchronous and asynchronous motor control with or without encoder
- Electronic block detection
- Maximum torque for the entire speed range
- Boost of cinematic energy by speed increase
- 400kW single device with 180% overload
- Air- and water-cooled
- Cabinet solution available

FEATURES

- Class C3, C4 and C5 surface protection (according to standard UNI EN ISO 12944-2)
- Peak torque from 80,000 to 129,000 Nm
- Gear ratios from 92 to 115
- Shamrock output, output shaft: flanged output shaft
- Flanged axial piston hydraulic motors
- Axial piston hydraulic motors
- Synchro drive
- Series optionally extendable for field bus communication and encoder evaluation
- Plug-in power terminals (up to 3kW)
- Plug-in and programmable control terminals
- DC link connection
- Integrated brake chopper
- Positioning function via field bus (motion control compatible to CiA DS402)
- Integrated VPLC
- Electronic gear in speed or position control
- Power failure management
- Integrated Safe Torque Off STO (SIL 3 / PL e) function
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via optional keypad or PC software



700C Series
Track Drives



BENEFITS

- Safe & efficient solutions
- Compact design

FEATURES

- Rotating housing
- Lifelong mechanical seals on request
- Multiple ratios
- Integrated disc-brake

TECHNICAL DATA

Torque (Nm)	
706 C	26.000
707 C	40.000
709 C	45.000
710 C	50.000
711 C	62.000
713 C	85.000
715 C	130.000
716 C	150.000
717 C	180.000
718 C	240.000
720 C	



700CE Series
Track Drives



- Benefits for OEMs**
 - Ability to downsize and downspeed combustion engines
 - Easy installation: electric solution dimensions comparable to standard hydrostatics
 - Greater system reliability: fewer mechanical parts
 - Virtually maintenance-free electric motors
- From sprocket to electric wire with only one supplier
- Benefits for end-users**
 - Reduced fuel consumption
 - Increased productivity
 - Better machine maneuverability
 - The electric solution is cleaner: lower risk of oil spills

- Gear ratios up to 166
- Input speed up to 6,000 rpm
- Multistage planetary gearbox
- Rotating housing output
- Validated in the field
- Permanent magnet motors
- Suitable for 400 - 700Vdc batteries
- Liquid-cooled
- Aluminum or cast iron housing
- Protection rating >IP67

Torque (Nm)	
707 CE	40.000
709 CE	45.000
710 CE	50.000
711 CE	62.000
713 CE	85.000

Power S1 (kW)	
BPM 200-L1	5
BPM 200-L2	8
BPM 200-L3	11
BPM 200-L4	16
BPM 240-L4	30
BPM 240-L7	46
BPM 300-L8	110

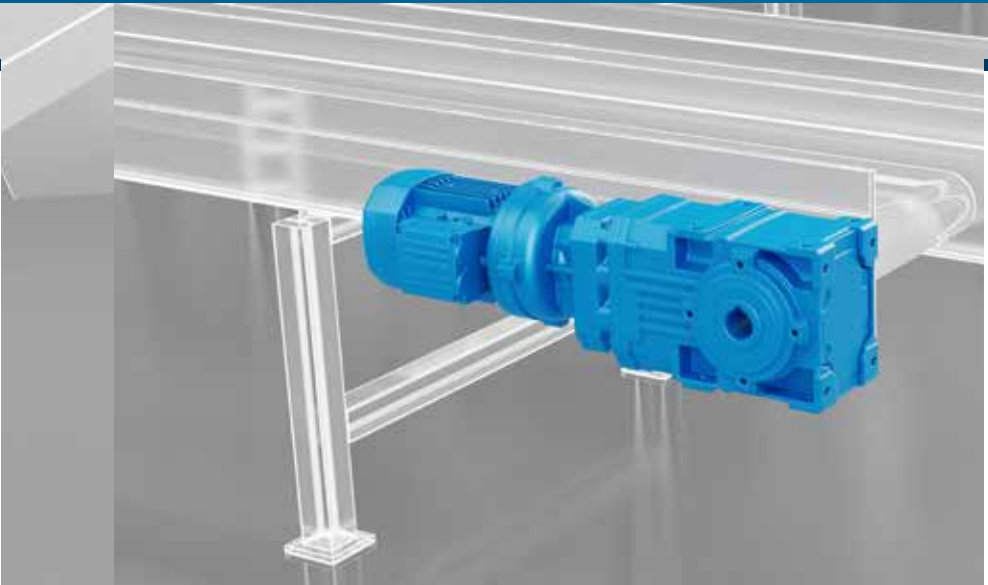




2

SECONDARY SHREDDING

Planetary rating torque over 2 MioNm guarantees a complete range of shredding machine applications. Thanks to their high peak load capacity, our planetary gears are the best in class in terms of mechanical performances. And full integration with Bonfiglioli drives offers a complete package solution.



3

CONVEYING

Thanks to the extensive selection of features and space efficiency, we can offer specific products based on the conveying systems. High dynamic response and energy savings are fundamental features when you choose Bonfiglioli. Furthermore, the cost effective and extended service intervals reward a very low cost of ownership. And full integration with Bonfiglioli drives offers a complete package solution.



300M series

Planetary gearbox and geared motor



HDO series

Helical in-line gearbox and geared motor



Active Cube series

Premium inverter



A series

Helical bevel gearmotors



AxiaVert series

Premium drive

BENEFITS

- High shock load resistance
- Compact design
- One-stop-shop for complete drive solutions
- Reliable and customized solution for extreme low temperature working conditions
- Wash down capability

FEATURES

- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Thermal protection (bi-metallic, PTC or KTY)
- Anti-condensation heaters
- Total quality inspection certificate

- High torque capabilities
- High shock load resistance
- Superior mechanical performances

- Surface protection
- Universal motor voltage (BXN/MXN)
- High and premium efficiency motors (IE2, IE3)
- Total quality inspection certificate

- Power range up to 1,200kW
- Reversing in case of block detection
- Reduction of starting current and energy provision

- Series optionally extendable for field bus communication and encoder evaluation
- Plug-in power terminals (up to 3kW)
- Plug-in and programmable control terminals
- DC link connection
- Integrated brake chopper
- Positioning function via field bus (motion control compatible to CiA DS402)
- Integrated VPLC
- Electronic gear in speed or position control
- Power failure management
- Integrated Safe Torque Off STO (SIL 3 / PL e) function
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via optional keypad or PC software

BENEFITS

- Compact
- Universal mounting
- Modular design
- Wash down capability

FEATURES

- Keyed hollow shaft (metric and inch series)
- High and premium efficiency motors (IE2, IE3)
- Wide range of feedback devices (incremental and absolute encoders)

- Power range up to 15 kW (up to 200 kW in preparation)
- Reversing in case of block detection

- Series optionally extendable for field bus communication and encoder evaluation
- Plug-in power terminals (up to 3kW)
- Plug-in and programmable control terminals
- DC link connection
- Integrated brake chopper
- Positioning function via field bus (motion control compatible to CiA DS402)

- Optional integrated PLC (IEC61131)
- Electronic gear in speed or position control
- Power failure management
- Functional Safety up to SIL 3 / PL e / Cat. 4 with STO, SBC, SS1, SLS and more
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via optional keypad or PC software



4

**COMPACTORS
BALERS MACHINE**

We offer versatile, robust and energy-efficient solutions that enhance compactor requirements. High dynamic response and energy savings are fundamental features when you choose Bonfiglioli. Furthermore, the cost effective and extended service intervals reward a very low cost of ownership. And full integration with Bonfiglioli drives offers a complete package solution.



A series
Helical bevel gearmotors



AxiaVert series
Premium drive

BENEFITS

- Compact
- Universal mounting
- Modular design
- Wash down capability

FEATURES

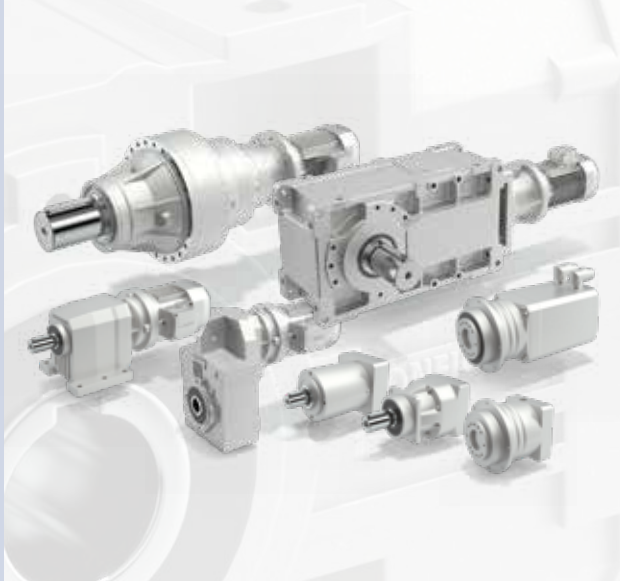
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- Wide range of feedback devices (incremental and absolute encoders)

- Power range up to 15 kW (up to 200 kW in preparation)
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- Series optionally extendable for field bus communication and encoder evaluation
- Plug-in power terminals (up to 3kW)
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- Positioning function via field bus (motion control compatible to CiA DS402)

- Optional integrated PLC (IEC61131)
- Electronic gear in speed or position control
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- Functional Safety up to SIL 3 / PL e / Cat. 4 with STO, SBC, SS1, SLS and more
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GEARBOXES & GEARED MOTORS

HEAVY DUTY

- Heavy duty parallel/right angle shaft geared motors**
HDP/HDO Series
- **Torque range:** 5,190 to 210,000 Nm
 - **Gear ratios:** 5.6 to 500
- Planetary geared motors | 300 Series**
- **Torque range:** 1,250 to 1,287,000 Nm
 - **Gear ratios:** 3.4 ... 2,916

LIGHT DUTY

- Worm geared motors | W/VF Series**
- **Torque range:** 13 to 7,100 Nm
 - **Gear ratios:** 5.6 to 500
- Helical geared motors | C Series**
- **Torque range:** 45 to 12,000 Nm
 - **Gear ratios:** 5.6 to 500
- Bevel-helical geared motors | A Series**
- **Torque range:** 100 to 14,000 Nm
 - **Gear ratios:** 5.6 to 500
- Shaft-mounted geared motors | F Series**
- **Torque range:** 140 to 14,000 Nm
 - **Gear ratios:** 5.6 to 500

SERVO

- Precision planetary servo geared motors**
TQ, TQK, TQF, TR, MP, LC, LCK, SL, KR Series
- **Torque range:** up to 1,000 Nm
 - **Gear ratios:** up to 1,000
 - **Backlash:** lower than 2 and 17 arcmin

MOTORS

- Asynchronous IEC motors | BN, BE, BX Series**
Asynchronous compact motors | MN, ME, MX series
- A complete range of AC motors, meeting worldwide MEPS (e.g. IE3)
- **Power range:** 0.06 to 355 kW
 - **Poles:** 4 poles

IE3

- Asynchronous motors | BN, BE, BX, M, ME, MX Series**
- A complete range of AC motors, meeting worldwide MEPS (e.g. IE3)
- **Power range:** 0.06 to 355 kW
 - **Poles:** 4 poles

IE3

- Synchronous motors | BMD Series**
- **Stall torque:** 0.85 to 60 Nm
 - **Rated speed:** from 1,600 to 6,000 min⁻¹
 - **Power supply:** 230, 400 VAC

- Synchronous reluctance motors | BSR Series**
- Two different versions for different needs: High efficiency IE4 and high output
- **Power range:** 0.37 to 18.5 kW

IE4

- Synchronous motors | BMD, BCR Series**
- **Stall torque BMD:** 0.85 to 60 Nm
 - **Stall torque BCR:** 0.2 to 115 Nm
 - **Rated speed BMD:** from 1,600 to 6,000 min⁻¹
 - **Rated speed BCR:** from 2,000 to 4,500 min⁻¹
 - **Power supply:** 230, 400 VAC
- Synchronous motors with integrated drives | iBMD Series**
- **Stall torque:** 2.7 to 36 Nm
 - **Rated speed:** 3,000 min⁻¹
 - **Power supply:** 560 VDC

INVERTERS

HEAVY DUTY

- Premium drive | AxiaVert series**
- **AXV20:** 0.25 - 9.2 kW / 230 V 1- or 3-phase
 - **AXV40:** 0.25 - 15 kW / 400 V 3-phase
- Premium inverter | Active Cube Series**
- **ACU210:** 0.25 - 9.2 kW / 1- or 3-phase
 - **ACU410*:** 0.25 - 400 kW / 3-phase
 - **ACU510*:** 160 - 400 kW / 3-phase
 - **ACU610*:** 160 - 400 kW / 3-phase 690 V

LIGHT DUTY

- Premium drive | AxiaVert series**
- **AXV20:** 0.25 - 9.2 kW / 230 V 1- or 3-phase
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 - **ACU410*:** 0.25 - 400 kW / 3-phase
 - **ACU510*:** 160 - 400 kW / 3-phase
 - **ACU610*:** 160 - 400 kW / 3-phase 690 V
- Advanced inverter | AxiaAgile Series**
- **AXA20:** 0.12 - 3 kW / 1-phase | 0.25 - 7.5 kW / 3-phase 230 V
 - **AXA40:** 0.25 - 11 kW / 3-phase 380...480 V
- Compact inverter | S2U Series**
- **S2U230S--...(F) IP66:** 0.25 - 400 kW / 3-phase

SERVO

- Premium drive | AxiaVert series**
- **AXV20:** 0.25 - 9.2 kW / 230 V 1- or 3-phase
 - **AXV40:** 0.25 - 15 kW / 400 V 3-phase
- Premium inverter | Active Cube Series**
- **ACU210:** 0.25 - 9.2 kW / 1- or 3-phase
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 - **ACU610*:** 160 - 400 kW / 3-phase 690 V
- Advanced inverter | AxiaAgile Series**
- **AXA20:** 0.12 - 3 kW / 1-phase | 0.25 - 7.5 kW / 3-phase 230 V
 - **AXA40:** 0.25 - 11 kW / 3-phase 380...480 V

* up to 1200 kW with parallel connection

R&D Capacity

DESIGN SIMULATION



TESTING
LABORATORIES



CO-ENGINEERING



Our worldwide presence

Thanks to an international network of closely interconnected commercial and production sites, we can guarantee the same high standards of Bonfiglioli quality anywhere at any given time. We know that our direct presence in local markets is the key to long-lasting success, so our family includes 18 production sites, 24 commercial sites and more than 550 distributors around the world.

Our organization is always close by, offering complete and efficient solutions and supporting our customers with dedicated services, co-engineering and after-sales assistance.

18  PRODUCTION SITES

24  COMMERCIAL SITES

80  COUNTRIES

550  DISTRIBUTORS

~5,000  PEOPLE

Bonfiglioli global locations

AUSTRALIA

Bonfiglioli Transmission (Aust.) Pty Ltd
Plumpton NSW



BRAZIL

Bonfiglioli Redutores do Brasil Ltda
São Bernardo do Campo - São Paulo



CHINA

Bonfiglioli Drives (Shanghai) Co. Ltd.
Shanghai



Selcom Electronics (Shanghai) Co., Ltd
Shanghai



Shanghai



FRANCE

Bonfiglioli Transmission S.A.S.
Marly la Ville



GERMANY

Bonfiglioli Deutschland GmbH
Neuss



Bonfiglioli Deutschland GmbH
Krefeld



O&K Antriebstechnik GmbH
Hattingen



INDIA

Bonfiglioli Transmission Ltd.

Mobility & Wind Industries

Thirumudivakkam
Kancheepuram - Tamil Nadu



Industry & Automation Solutions

Mannur Village, Sriperumbudur Taluk
Kancheepuram - Tamil Nadu



Industry & Automation Solutions

Pune - Maharashtra



ITALY

Bonfiglioli Riduttori S.p.A.

Industry & Automation Solutions
Calderara di Reno (BO)



Industry & Automation Solutions

Carpiano



Mobility & Wind Industries

Forlì



Industry & Automation Solutions

Rovereto



Selcom Group S.p.A.

Castel Maggiore (BO)



Castel Maggiore (BO)



Cadriano (BO)



NEW ZEALAND

Bonfiglioli Transmission (Aust.) Pty Ltd

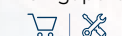
Auckland - Ellerslie



SINGAPORE

Bonfiglioli South East Asia Pte Ltd

Singapore



SLOVAKIA

Bonfiglioli Slovakia s.r.o.

Považská Bystrica



SOUTH AFRICA

Bonfiglioli South Africa Pty Ltd.

Johannesburg



SOUTH KOREA

Bonfiglioli Korea Co., Ltd.

Busan



SPAIN

Tecnotrans Bonfiglioli S.A.

Castellbisbal - Barcelona



TURKEY

Bonfiglioli Türkiye Jsc

Çiğli - Izmir



UNITED KINGDOM

Bonfiglioli UK Ltd.

Warrington - Cheshire



USA

Bonfiglioli USA Inc.

Hebron - Kentucky



VIETNAM

Bonfiglioli Vietnam Co. Ltd.

Ben Cat city, Binh Duong province



PRODUCTION



ASSEMBLY



SALES



SERVICE





We have a relentless commitment to excellence, innovation & sustainability. Our team creates, distributes and services world-class power transmission & drive solutions to keep the world in motion.

HEADQUARTERS

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